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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/715,957 11/17/2003 4447 Jiro Moriyama CFA00047US 34904 **EXAMINER** 09/08/2005 CANON U.S.A. INC. INTELLECTUAL PROPERTY DEPARTMENT GARCIA JR, RENE 15975 ALTON PARKWAY ART UNIT PAPER NUMBER IRVINE, CA 92618-3731 2853

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/715,957	MORIYAMA ET AL.	/lm
	Examiner	Art Unit	
	Rene Garcia, Jr.	2853	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely., the mailing date of this comm D (35 U.S.C. § 133).	nunication.
Status		•	
1) Responsive to communication(s) filed on	_•	-	
•=-	action is non-final.	. :	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	yn from consideration	•	
5) Claim(s) is/are allowed.	Without consideration.	•	
6)⊠ Claim(s) <u>1-13</u> is/are rejected.		:	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.	•	
Application Papers			
9) The specification is objected to by the Examine		ted to by the Eversin	0.5
10) The drawing(s) filed on 17 November 2003 is/an	, –	-	ei.
Applicant may not request that any objection to the one of Replacement drawing sheet(s) including the correction	- · ·		1 121(d)
11) The oath or declaration is objected to by the Ex			
The oath of declaration is objected to by the Ex	annier. Note the attached emoc	;	102.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:		•	
 Certified copies of the priority documents 	s have been received.	:	
Certified copies of the priority documents			
Copies of the certified copies of the prior		ed in this National St	age
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •		
* See the attached detailed Office action for a list	of the certified copies not receive	∌d. ∵	
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO 412)	
2) D Notice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) interview Summary Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTO-1	52)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraph's of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2 & 4-13 are rejected under 35 U.S.C. 102(b) as being anticipated in view of Silverbrook et al. (US PGPUB 2002/0080396).

Silverbrook et al. disclose the following:

*regarding claims 1 & 10, recording apparatus /netpage printer, 601/ (fig. 11) and method for forming an image on a recording medium/netpage, 1/ (fig. 1; paragraph 0216), comprising:

*recording means/print engine controllers, 760/ (fig. 14; paragraph 0554) for performing recording by applying a recording material/ink/ (paragraph 0243) onto the recording medium/1/ (fig. 1), the recording means/760/ recording at least one of a positional information image/coded data, 3/ representing positional information (paragraph 0158; x & y coordinates) corresponding to the position where the positional information image/coded data, 3/ is recorded and the other image/graphic data, 2/ (fig. 1; paragraph 0129)

*control means/processor, 750/ (fig. 14; paragraphs 0552 & 0553) for controlling the recording (paragraph 0220) such that the recording means/760/ records the positional information image with a recording material/infrared inks, IR-absorptive black ink/ capable of

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being detected by a predetermined detector/netpage pen, 101/ (figs. 8 & 9; paragraph 0255), and said other image with another recording material/inks/ (paragraph 0243; cyan, magenta, yellow, black) incapable of being detected by the detector/netpage pen, 101/ (paragraph 0151 – cyan, magenta, yellow, black are non-infrared emitting)

*regarding claim 2, recording material/infrared inks, IR-absorptive black ink/ used for recording the positional information image/coded data, 3/ contains carbon (paragraphs 0584 – 0592; infrared dyes/ink/ contain carbon atoms), and the recording material (paragraph 0243; cyan, magenta, yellow, black) used for recording said other image/graphic data, 2/ is carbon-free (fig. 1)

*regarding claim 4, recording material for the positional information image/coded data, 3/ (fig. 1, paragraph 0129) is black/IR-absorptive black ink/ (paragraph 0223), and the recording material for said other image/graphic data, 2/ (fig. 1, paragraph 0129) is a plurality of recording materials/inks/ capable of recording a color image (paragraph 0243)

*regarding claim 5, plurality of recording materials/inks/ correspond to a plurality of colors including yellow, magenta, and cyan (paragraph 0243)

*regarding claim 6, plurality of recording materials/inks/ have a plurality of colors including yellow, magenta, cyan, and black (paragraph 0243)

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*regarding claim 7, positional information image/coded data, 3/ (fig. 1) is expressed by a combination pattern of a plurality of spots to represent the positional information (figs. 6a, 6b & 6c)

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*regarding claim 8, positional information/coded data, 3/ is associated with coordinates on the recording medium/netpage, 1/ (fig. 1; paragraph 0159; x & y coordinates)

*regarding claim 9, positional information/coded data, 3/ is associated with coordinates on a virtual plane beyond the area of the recording medium/netpage, 1/ (fig. 1; paragraph 0149; multiple pages can have same positional data & each page has unique page ID since recording medium is considered to be one page; paragraph 0157 – region to which a tag [tag ID – positional information] refers can be an arbitrary subregion of a page or other surface [virtual plane])

*regarding claim 11, recording medium/netpage, 1/ (fig. 1) including:

*pattern image/coded data, 2/ (figs. 1 & 6a, 6b, 6c; paragraph 0129) designating positions (paragraph 0158; x & y coordinates) at least thereon, the pattern image being/2/recorded by applying a first recording material/ink/ capable of being detected by a predetermined detector/netpage pen, 101/ (figs. 8 & 9; paragraph 0255)

*the other image/graphic data, 2/ (fig. 1; paragraph 0129) recorded by applying a second recording material incapable of being detected by the detector/101/

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*regarding claim 12, recording system comprising (fig. 14 – printer controller):

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*recording apparatus/netpage printer, 601/ (fig. 11) for performing recording by applying a recording material/ink/ onto a recording medium/netpage,1/ (fig. 1) according to image data, the recording apparatus/601/ recording positional information representing positions/coded data, 3/ (fig. 1; paragraph 0129 & 0158) on at least the recording medium/1/ and the other image/graphic data, 2/ (fig. 1), the recording apparatus/601/ including control means/processor, 750/ (fig. 14; paragraphs 0552 & 0553) for controlling recording such that the positional information/3/ is recorded with a recording material capable of being detected by a predetermined detector/netpage pen, 101/ (figs. 8 & 9; paragraph 0255), and said the other image/graphic data, 2/ (fig. 1) is recorded with a recording material incapable of being detected by the detector/101/ (paragraph 0151 – cyan, magenta, yellow, black are non-infrared emitting)

*transmitting apparatus/print controller, 656/ (fig. 15) for transmitting the image data to the recording apparatus/netpage printer, 601/ (fig. 11), the transmitting apparatus including image data preparation means/DSPs, 757/ (fig. 14; paragraph 0563) and image data transmission means/IEEE 1394 Serial Interface, 659/ (fig. 14; paragraph 0569)

*regarding claim 13, program for controlling/software/ (paragraph 0556) a recording apparatus/netpage printer, 601/ (fig. 11) for recording an image by applying a recording material/ink/ (paragraph 0243) onto a recording medium/netpage, 1/ (fig.1), the program performing:

*the recording step (paragraph 0567) of recording an positional information image/coded data, 3/ corresponding to positional information representing positions (paragraph 0158; x & y

coordinates) on at least the recording medium/1/ and the other image/graphic data, 3/, on the recording medium/1/ (fig. 1; paragraph 0129; paragraph 0220 – printing of combination of data)

*the control step (paragraph 0571) of controlling the recording step such that the positional information image is recorded with a recording material/infrared inks, IR-absorptive black ink/ capable of being detected by a predetermined detector/netpage pen, 101/ (figs. 8 & 9; paragraph 0255), and said the other image/3/ is recorded with another recording material/ink/ incapable of being detected by the detector/101/ (paragraph 0151 – ink: cyan, magenta, yellow, black are non-infrared emitting)

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook et al. (US PGPUB 2002/0080396) in view of Tan et al. (US 6,613,403).

Silverbrook et al. disclose all of the claimed limitations except for the following:

*regarding claim 3, recording material used for recording the positional information image comprises one of a pigment ink containing carbon and a dye ink containing carbon, and the recording material used for recording said other image comprises one of a carbon-free pigment ink and a carbon-free dye ink

Silverbrook et al. did not expressly specify which recording material/ink/ to utilize

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Tan et al. does not disclose the following:

*regarding claim 3, recording material/ink/ used for recording the positional information image comprises one of a pigment ink containing carbon and a dye ink containing carbon, and the recording material used for recording said other image comprises one of a carbon-free pigment ink and a carbon-free dye ink (col. 9, lines 7-24; allows for inks including dye or

pigment and colorant is carbon-free; Tan et al. teaches using carbon free inks so not to interfere

with NIRF [near infrared fluorescent] inks)

Although Silverbrook et al. and Tan et al. are analogous art because they are directed to a similar problem solving area of recording material/ink/ detection and recording material lack of detection.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to utilize a recording material of dye and pigment containing carbon; and recording material of dye and pigment being carbon-free as taught by Tan et al. into Silverbrook et al. for the purpose of ink detection and lack of detection based on specific properties (infrared detection).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ericson et al. (US 6,854,821) disclose printing using position-coding pattern for graphical data positioning. Lazzouni et al. (US 5,661,506) disclose a recoding system using invisible inks with positional data and the use of an imaging pen.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rene Garcia, Jr. whose telephone number is (571) 272-5980. The examiner can normally be reached on M-F 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rene Garcia Jr. 23 August 2005